



HILLCLIMB COMPETITION CLASSES –

(To be nominated on entry form)

Type 1.

For stock standard, two wheel drive production vehicles, with full production trim and standard seats. Includes HSV and FPV style factory vehicles. Vehicles must be either road registered or of an equivalent standard.

Permitted Modifications:

- Decorative additions only such as exhaust tip or body kit.
- Rollover protection is permitted as long as it not designed to improve chassis rigidity (eg. By being connected/welded to suspension towers etc).

Capacity Classes:

- 0 to 1600cc,
- 1601 to 2000cc,
- 2001 to 3000cc and,
- over 3000cc.

Type 2.

For production vehicles as described in Type 1 above, with further modifications allowed as detailed below:

Permitted Modifications:

- Air Cleaner is free.
- Exhaust is free – subject to noise restraints **as prescribed in the Supplementary Regulations issued for each event.**
- Wheels and tyre sizes may be changed, provided they retain commercially available treaded road type tyres and fit within the standard guards with appropriate clearances. Road-legal tread depth is not compulsory. However, at the start of competition the original tread must be clearly visible across the face of the tyre, except on the shoulder where excessive wear may occur due to steering and cornering. This is subject to normal safety issues being met such as no canvas or steel belts being visible.
(**Note:** Racing tyres marked “For Racing Only” or “Not for Highway Use”, or words to that effect, including slicks or wets, may not be used).
- Springs, shock absorbers and anti-roll bars may be changed provided they remain road legal and use original chassis mounting points. Adjustable spring platforms and camber adjustment devices may be used.
- Driver’s seat may be replaced with a sports type seat.
- Rollover protection is permitted as long as it not designed to improve chassis rigidity (eg. By being connected/welded to suspension towers etc).

Note: No **increase** is permitted to the intake system (e.g. to carburettor, throttle body, fuel injection, turbo boost or the factory computer).

Capacity Classes:

- 0 to 1600cc,
- 1601 to 2000cc,
- 2001 to 3000cc and,
- Over 3000cc.

Type 3.

For production vehicles as described in Types 1 and 2 above, with further modifications allowed as detailed below. Must be of a standard essentially suitable for registration. Must retain full glass and must not use (non-standard) lightweight panels. However, at the organiser's discretion, replacement bonnets of a decorative nature (eg carbonfibre or fiberglass) may be used, but only if full interior trim is retained.

Permitted Modifications:

- Passenger seats, heater, carpet and roof lining may be removed but production interior trim (dash, door trims and window winders etc) must be retained.
- Intake system is free (including turbo/super charging, multiple carburettors, increased turbo boost, intercooler, computer etc).
- Wheel and tyre sizes are free but must fit within guards. Only commercially available treaded road-type tyres are permitted. Road-legal tread depth is not compulsory. However, at the start of competition the original tread must be clearly visible across the face of the tyre, except on the shoulder where excessive wear may occur due to steering and cornering. This is subject to normal safety issues being met such as no canvas or steel belts being visible. (**Note:** Racing tyres marked "For Racing Only" or "Not for Highway Use", or words to that effect, including slicks or wets, may not be used).
- Guards may be slightly flared in metal or with add-on fiberglass or rubber flares suitable for registration purposes.
- Engine must be from the original manufacturer and fitted with little or no modification to the firewall (eg SR20 in Datsun 1200, 13B turbo in early RX7, Gen3 in early Commodore). Note: The original number of rotors/cylinders must be retained and engine must be in the original location and may not be relocated for purposes of weight distribution.
- Full Roll cages are permitted (including those welded to suspension towers etc in order to strengthen chassis).
- Brakes are free.
- Battery may be relocated

Capacity Classes:

- 0 to 1600cc,
- 1601 to 2000cc,
- 2001 to 3000cc and,
- Over 3000cc.

Type 4.

For production based, two wheel drive vehicles, which have been extensively modified beyond suitability for registration (commonly referred to as Sports Sedans). In addition to Types 1-3 above, the following modifications are permissible.

Permitted Modifications:

- Engine may be from any manufacturer but must be a production based item (ie specialist “racing only” engines such as F1 Ilmor are not permitted).
- Firewall may be extensively modified to allow engine fitment.
- Engine may be relocated for weight distribution purposes.
- Racing tyres marked “For Racing Only” or “Not for Highway Use”, or words to that effect, including slicks or wets may be used.
- Guards may be extensively widened/flared to allow fitment of larger wheels/tyres.
- Interior may be stripped and modified.
- Lightweight components, panels and non-glass windows may be used.

Capacity Classes:

- 0 to 1600cc,
- 1601 to 2000cc,
- 2001 to 3000cc and,
- Over 3000cc.

Type 5.

For open wheel racing cars. Also includes Type AWD/SV vehicles (as described below) competing on specialised racing tyres marked “For Racing Only” or “Not for Highway Use”, or words to that effect, including slicks or wets.

Permitted Modifications:

- Any.

Capacity Classes:

- 0 to 750cc,
- 751 to 1300cc,
- 1301 to 2000cc and,
- Over 2000cc.

Type AWD/SV.

For All Wheel Drive cars (eg Subaru, Mitsubishi, VW, Nissan, Porsche etc), Kit cars (eg AC Cobra replica, Locost Clubman etc), and other low volume, limited compliance cars (eg PRB/Westfield/Elfin Clubman)

Permitted Modifications:

- Wheel and tyre sizes are free but must fit within guards. Only commercially available treaded road-type tyres are permitted. Road-legal tread depth is not compulsory. However, at the start of competition the original tread must be clearly visible across the face of the tyre, except on the shoulder where excessive wear may occur due to steering and cornering. This is subject to normal safety issues being met such as no canvas or steel belts being visible. (**Note:** Racing tyres marked “For Racing Only” or “Not for Highway Use”, or words to that effect, including slicks or wets, may not be used).
- Other modifications permitted as listed at Type 3 above.

NOTE: If an AWD/SV vehicle is modified beyond the above limitations it must run in Type 5.

Capacity Classes:

- 0 to 1600cc,
- 1601 to 2000cc,
- 2001 to 3000cc and,
- Over 3000cc.

Type AE.

For Alternate Energy vehicles. For the introductory year (2010) this class is limited to electric powered vehicles only (this includes solar powered vehicles) with a minimum of Three wheels. Hybrid vehicles running in electric mode only may also compete in this class.

Capacity Classes:

At this stage no capacity/power output classes have been developed.

NOTE: In addition to the above class rules, multipliers apply to Rotary Engines and Turbo/Supercharged engines to calculate effective capacity for classification purposes:

- **Rotaries** have the engine capacity multiplied by 1.8.
- **Turbo or supercharged** have the engine capacity multiplied by 1.7
- **Turbo or supercharged rotaries** have the engine capacity multiplied by 1.8 then 1.7 (net multiplier equals 3.06)

Examples:

- 13B rotary is $1308\text{cc} \times 1.8 = 2354.4\text{cc}$
- 13B rotary with a turbo is $1308\text{cc} \times 1.8 \times 1.7 = 4002.48\text{cc}$
- 2 litre motor with a turbo is $2000\text{cc} \times 1.7 = 3400\text{cc}$.